AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. – 33. (cancelled)

34. (PREVIOUSLY PRESENTED) A solidifiable matrix comprising a first phase in a fluid state and a second phase distributed through the first phase, wherein the solidifiable matrix is suitable for introduction into a tissue prior to solidification of the first phase to form a porous matrix, wherein the term fluid defines any substance which flows and therefore includes liquids, gases, and solids which are able to flow and to conform to the outline of their container.

35. (NEW) A solidifiable matrix according to claim 34, wherein the second phase is solid.

36. (NEW) A solidifiable matrix according to claim 35, wherein the second phase comprises a solid particle material contained within and distributed through the first phase.

37. (NEW) A solidifiable matrix according to claim 36, wherein the solid particulate material is porous.

38. (NEW) A solidifiable matrix according to claim 34 wherein the first phase or the second phase or both the first phase and the second phase comprises one or more of the polymers selected from poly (α-hydroxyacids), polylactic acids, polyglycolic acids, poly-lactide poly-glycolide copolymers, poly-lactide polyethylene glycol (PEG)

copolymers, polyesters, poly (ε-caprolactone), poly (3-hydroxy-butyrate), poly (s-caproic acid), poly (p-dioxanone), poly (propylene fumarate), poly (ortho esters), polyol/diketene acetals addition polymers, polyanhydrides, poly (sebacic anhydride) (PSA), poly (carboxybiscarboxyphenoxyphenoxyhexane) (PCPP), poly [bis(p¬-carboxyphenoxy) methane] (PCPM), copolymers of SA, CPP and CPM poly (amino acids), poly (pseudo amino acids), polyphosphazenes, derivatives of poly [(dichloro) phosphazene], poly [(organo) phosphazenes] polymers, polyphosphates, polyethylene glycol polypropylene block copolymers, natural polymers, silk, elastin, chitin, chitosan, fibrin, fibrinogen, polysaccharides (including pectins), alginates, collagen, poly (amino acids), peptides, polypeptides, proteins, or mixtures thereof.

- 39. (NEW) A solidifiable matrix according to claim 38, wherein the polymer is biodegradable.
- 40. (NEW) A solidifiable matrix according to claim 38, wherein the polymer is crosslinked.
- 41. (NEW) A solidifiable matrix according to claim 38, wherein the first phase or the second phase or both the first phase and the second phase comprises the polymer and a plasticizer.
- 42. (NEW) A solidifiable matrix according to claim 34, which additionally contains cells.
- 43. (NEW) A solidifiable matrix according to claim 42, wherein the cells are provided in the second phase.
- 44. (NEW) A solidifiable matrix according to claim 42, in which the cells are animal cells.

45. (NEW) A solidifiable matrix according to claim 44, in which the cells are mammalian cells.

46. (NEW) A solidifiable matrix according to claim 44, in which the cells are human cells.

47. (NEW) A solidifiable matrix according to claim 44, in which the cells are bone cells, osteoprogenitor cells, cardiovascular cells, endothelial cells, lung cells, cardiomyocyte cells, pulmonary cells, intestinal cells, cartilage cells, muscle cells, liver cells, kidney cells, skin cells, specialised cells such as placental cells, amnionic cells, chorionic cells or foetal cells, stem cells, chondrocyte cells, or adipocytes reprogrammed to become cartilage cells.

48. (NEW) A solidifiable matrix according to claim 34, in which the matrix further comprises one or more factors useful for the promotion of tissue growth and development.

49. (NEW) A solidifiable matrix according to claim 48, wherein the factors in the matrix comprise one or more factors selected from: epidermal growth factor, platelet derived growth factor, basic fibroblast growth factor, vascular endothelial growth factor, insulinlike growth factor, nerve growth factor, hepatocyte growth factor, transforming growth factors, bone morphogenic proteins, cytokines, interferons, interleukins, monocyte chemotactic protein-1(MCP-1), oestrogen, testosterone, kinases, chemokinases, glucose, sugars, amino acids, calcification factors, dopamine, amine-rich oligopeptides, fibronectin, laminin, tamoxifen, cis-platin, and peptides.

50. (NEW) A solidifiable matrix according to claim 34, in which the matrix further comprises drugs, hormones, enzymes, antibiotics, nutrients or mixtures thereof in both the first phase and the second phase.

51. (NEW) A solidifiable matrix according to claim 34, in which each of the first phase and the second phase of the matrix comprises different drugs, hormones, enzymes, antibiotics, nutrients or mixtures thereof.